

Title (en)

REFLECTIVE COMPOSITE MATERIAL COMPRISING AN ALUMINUM SUBSTRATE AND A SILVER REFLECTIVE LAYER

Title (de)

REFLEKTIERENDES VERBUNDMATERIAL MIT EINEM ALUMINIUM-TRÄGER UND MIT EINER SILBER-REFLEXIONSSCHICHT

Title (fr)

MATÉRIAU COMPOSITE RÉFLÉCHISSANT À SUPPORT EN ALUMINIUM ET À COUCHE RÉFLÉCHISSANTE EN ARGENT

Publication

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Application

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Abstract (en)

[origin: WO2017032807A2] The invention relates to a reflective composite material (V) comprising a substrate (1) that consists of aluminum, an intermediate layer (2) of an anodically oxidized substrate material, which intermediate layer contacts the substrate (1) with a face (A), and an optically active multi-layer system (3) applied on top of the intermediate layer (2) and consisting of at least three layers, the upper layers (4, 5) being dielectric and/or oxide layers, and the bottom-most layer (6) being a metal layer which consists of silver and forms a reflective layer (6). In order to increase the aging resistance of said material, a diffusion-resistant barrier layer (8) is applied on top of the intermediate layer (2) and under the reflective layer (6), the reflective layer (6) being bonded to the barrier layer (8) via an adhesion promoter layer (9).

IPC 8 full level

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